



FortiSandbox 3500D

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本日、フォーティネット製品の登録をしてください。

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请马上注册

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<https://support.fortinet.com>

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Phone: 1 408 486 7899

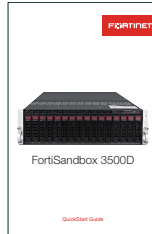
Fax: 1 408 235 7737

Email: register@fortinet.com

Box Includes



FortiSandbox 3500D



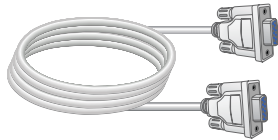
QuickStart Guide



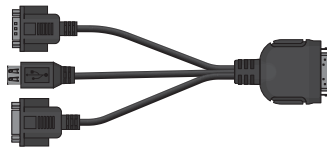
2 Power Cables



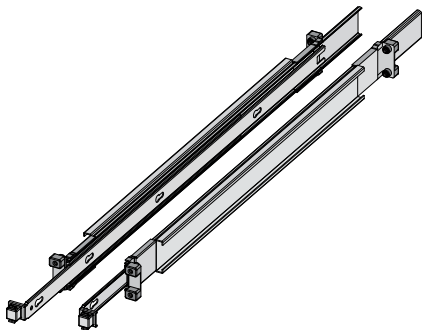
Ethernet Cable



Console Cable



KVM Cable



Rail Mount Kit

1 Installation

The FortiSandbox unit can be mounted in any standard **19 inch rack** unit with the provided mounting hardware.

Please read "Cautions and Warnings" on page 16 prior to installing your device.

Caution: **Electrostatic discharge** (ESD) can damage your Fortinet equipment.

To avoid personal **injury** or **damage** to the unit, it is recommended that two or more people install the unit into the rack.

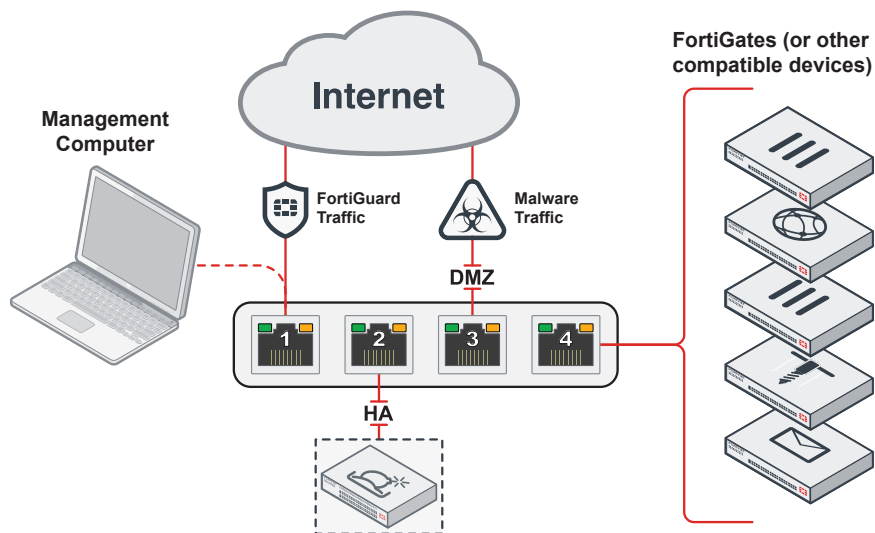
Do not place heavy objects on the unit.

1. Using the supplied hardware, attach the **inner slide rails** to each side of the unit. Align the two, **square holes** on each rail to the **hooks** on the sides of the unit. Securely attach the rail to the unit using M4 flat head **screws**.
2. Attach the **outer slide rails** to the rack.
Keep the **sliding rail guides** facing into the rack and screw the assembly securely to the rack using the provided brackets. Ensure that both rails are at the same **height**.
3. Ensure there is enough **room** around the unit to allow for sufficient **air flow**.
4. Slide the unit into your equipment rack using **equal pressure** on both sides. You may have to depress the **locking tabs** when inserting the unit. When the unit has been completely pushed into the rack, the **locking tabs** should **click** into place.
5. Plug the supplied **power cables** into the rear of the unit and then into **grounded electrical outlets** or a separate power sources, such as **uninterruptible power supplies** (UPS) or a **power distribution units** (PDU).

Note: Each **power cable** should be connected to a different **power source**. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

Note: Turning on the device does not always power up all of the inserted blades. If a blade does not automatically power up, use the blade's power button to turn on the blade.

2 Connections



Connect your device as follows:

Port	Connection
1	Connect a management computer to configure the device using the GUI . Connect to the Internet to access FortiGuard and FortiCare .
2	High Availability (HA) connection.
3	The VM outgoing port allows possibly malicious connections to connect to the Internet. This port should be connected through an isolated network .
4 and up	Connect FortiGate or other devices. Optionally, can be used as sniffer ports.

Note: The FortiSandbox unit requires some [basic configuration](#) to add it to your network, including assigning [IP addresses](#), DNS settings, and the [default gateway](#). Until these steps are completed traffic will not flow through the device.

[Ethernet port 1](#) only supports HTTPS, HTTP, SSH, and Telnet services. With the exception of HTTPS, these services can be [disabled](#) using the [GUI](#).

3 Setup Options

- A** Web Browser

Setup Wizard (p.7)

B Terminal Emulation

With console cable (p.8)

A Web Browser

To Connect to the GUI

1. Connect the [Ethernet cable](#).
2. Configure the management computer to be on the same [subnet](#) as the internal interface as the FortiSandbox unit:

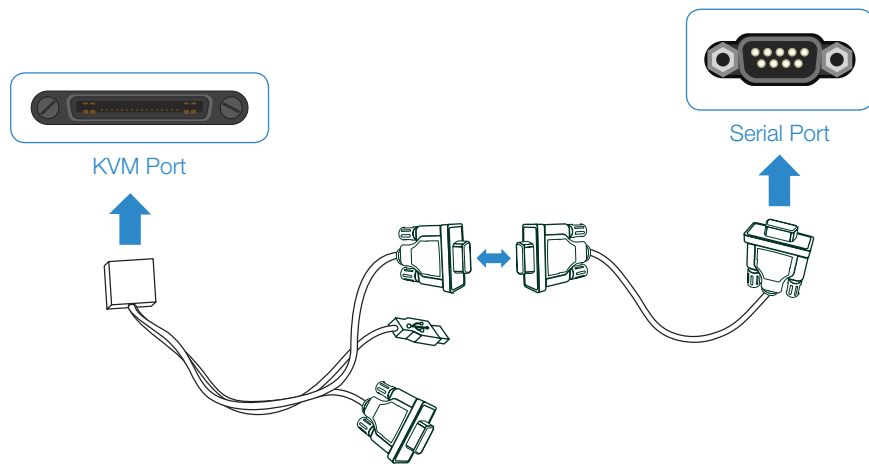
IP address: 192.168.0.X

Netmask: 255.255.255.0

3. Visit the [IP address](#) for the blade (see [table](#) below) in your web browser.
4. Login using username ["admin"](#) and [no password](#).
5. [Configure your device](#) and save your settings.
6. [Register your device](#) on the FortiCare website.

Blade	HA Role	Port1 IP
1	Master	192.168.0.99
2	Primary Slave	192.168.0.100
3	Slave	192.168.0.101
4	Slave	192.168.0.102
5	Slave	192.168.0.103

B Terminal Emulation



To Connect to the CLI

1. Connect the device's **console port** to the management computer using the provided **console cable**.
2. Start a **terminal emulation program** on the management computer, select the **COM port**, and use the following settings:

Baud Rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow Control: None

3. Press **Enter** on your keyboard to **connect to the CLI**.
4. Login using username **"admin"** and no password. You can now proceed with configuring your device.

A limited CLI is available for basic device configuration and **debugging** purposes. The FortiSandbox device is primarily configured using the **GUI**.

```
108.88.88.88
> help
FortiSandbox Console
General:
  help      Display this text.
  ?         Synonym for 'help'.
  exit      Exit from the CLI.
Configuration:
  show      Show bootstrap configuration.
  set       Set configuration parameter.
Available attributes/values for set:
    port1-ip <IP/netmask>
              e.g. port1-ip 1.2.3.4/24
    port2-ip <IP/netmask>
              e.g. port2-ip 1.2.3.4/24
    port3-ip <IP/netmask>
              e.g. port3-ip 1.2.3.4/24
    port4-ip <IP/netmask>
              e.g. port4-ip 1.2.3.4/24
    port5-ip <IP/netmask>
              e.g. port5-ip 1.2.3.4/24
    port6-ip <IP/netmask>
              e.g. port6-ip 1.2.3.4/24
    port7-ip <IP/netmask>
              e.g. port7-ip 1.2.3.4/24
    port8-ip <IP/netmask>
              e.g. port8-ip 1.2.3.4/24
    default-gw <IP>
              e.g. port8-ip 1.2.3.4/24
    date      <YYYY-MM-DD>
    time      <HH:MM:SS>
```

Useful CLI Commands

help	Show a list of valid CLI commands.
show	Show the bootstrap configuration including the port IP address (IPv4), network mask, and default gateway.
set port1-ip <ip>/<netmask>	Set the port 1 IP address and netmask.
set portX-ip <ip>/<netmask>	Set the port X IP address and netmask.
set default-gw <ip>	Set the default gateway.
reboot	Reboot the FortiSandbox. All sessions will be terminated.
shutdown	Shut down the FortiSandbox.
status	Show various system information.

For example, to configure the **IP address** and **gateway** of the FortiSandbox device, use the following commands:

```
set port1-ip 192.168.0.10/24
set default-gw 192.168.0.1
```

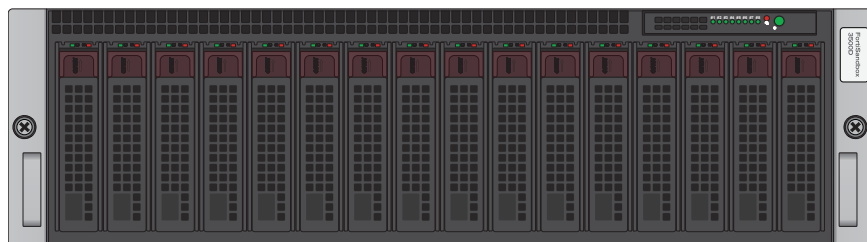
Blade Status 1 to 8

- **Green:** Blade powered and operating normally
- **Flashing Green:** Blade is shutting down
- **Flashing Red (1Hz):** Blade fan failure
- **Flashing Red (0.25Hz):** Blade power failure
- **Blue:** Blade local UID is on
- **Flashing Blue (1Hz):** Blade remote UID is on
- **Off:** Blade powered-down

Power Button

Turn the device on or off

- **Green:** The unit is on
 - **Off:** The unit is off
- ## Power Failure
- **Red:** A power supply has failed
 - **Off:** Normal operation

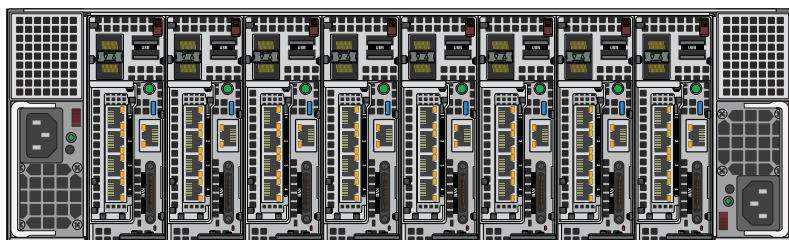


Hard Drive Activity

- **Flashing Green:** HDD in use
- **Off:** No HDD activity

HDD

- **Red:** Hard disk failure

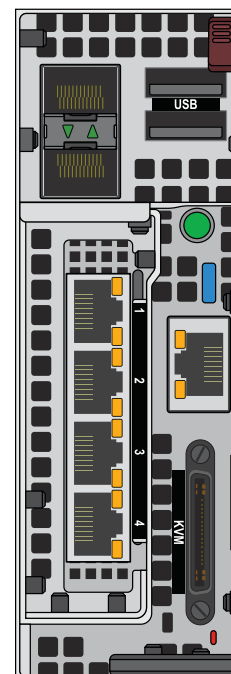


Power Supplies

- **Green:** The power supply is on and operating normally
- **Amber:** The system is off, the supply is off, or the supply needs service
- **Off:** Power is not connected to the supply, or the supply needs service

SFP+ Ports

- **Green:** Connected
- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established



Power Button

- **Green:** The blade is on
- **Off:** The blade is off

Failure

- **Red:** Failure - check blade hard drives, fan, and power module
- **Off:** Normal operation

Ethernet Ports Activity (top)

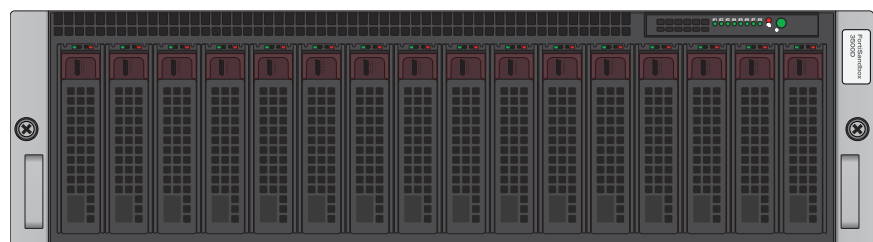
- **Amber:** Transmitting & receiving data
- **Off:** Not in use

Ethernet Ports Link (bottom)

- **Amber:** Connected at 1Gbps
- **Green:** Connected at 100Mbps
- **Off:** Connected at 10Mbps or not in use

Hard Drives

Eight 2TB SATA + 240GB SSD hard drive pairs



Blade 2

Hard drives
B1 and B2

Blade 4

Hard drives
D1 and D2

Blade 6 (optional)

Hard drives
F1 and F2

Blade 8 (optional)

Hard drives
H1 and H2

Blade 1

Hard drives
A1 (HDD, Left) and
A2 (SSD, Right)

Blade 3

Hard drives
C1 and C2

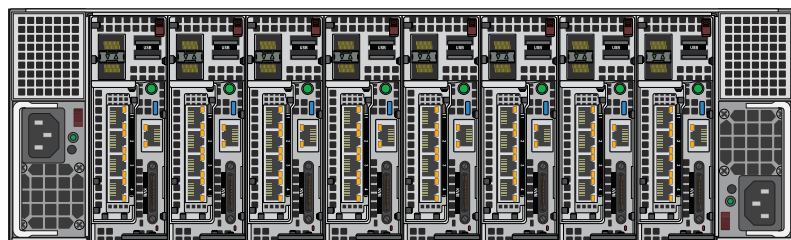
Blade 5

Hard drives
E1 and E2

Blade 7 (optional)

Hard drives
G1 and G2

Blade 7 Blade 5 Blade 3 Blade 1
Blade 8 Blade 6 Blade 4 Blade 2



Power

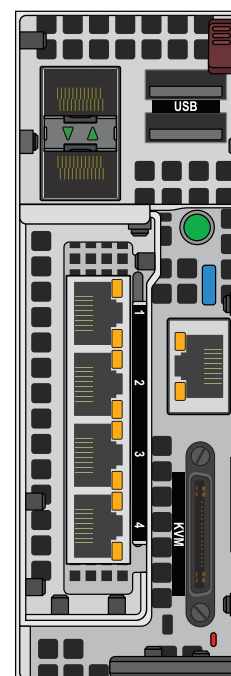
100-140V AC, 12-10A, 50-60Hz (each input)

180-240V AC, 10-8A, 50-60Hz (each input)

Redundant power supplies

SFP Ports (SFP+)

10Gbps small form-factor
pluggable transceiver ports



USB Ports (USB A)

Not in use

Power Button

Turn the blade on or off. Use this button if the blade does not automatically power on when the device is turned on.

IPMI Ports (RJ-45)

Not in use

KVM Port

VGA, USB, and console connection

Ethernet Ports 1 - 4 (RJ-45)

Gigabit Ethernet network connections

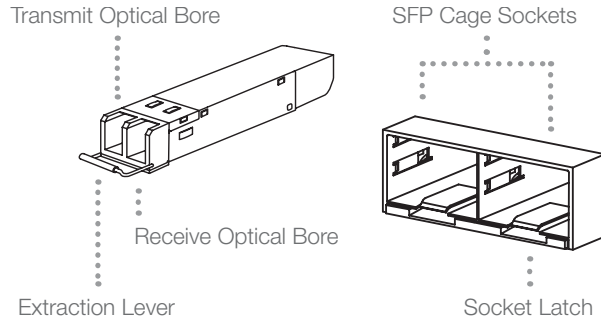


SFP Transceivers

Caution: SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

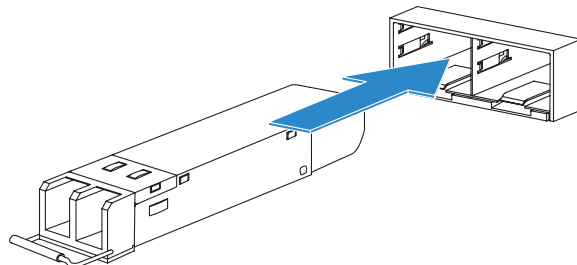
Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

Note: Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



To install the SFP transceivers

1. Ensure that you are properly grounded.
2. Remove the caps from the SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented. When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.
Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.

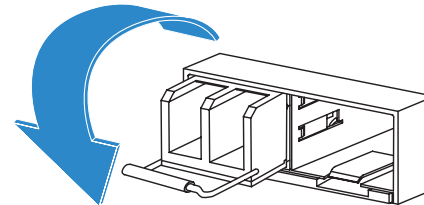


5. Press the transceiver firmly into the cage socket with your thumb.

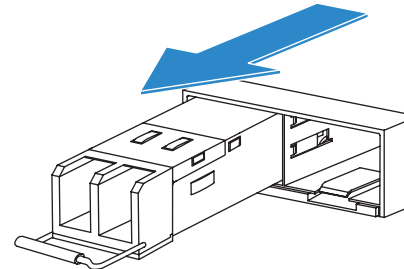
6. Verify that the transceiver is latched correctly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever. If the transceiver cannot be removed, it is installed and latched correctly. If the transceiver can be removed, reinsert it and press harder with your thumb. If necessary, repeat this process until the transceiver is securely latched into the cage socket.

To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver. If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the transceiver and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver into an antistatic bag.

Caution: Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

Note: Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:
Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas lié à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
Surtension – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
Fiabilité de la mise à la terre– Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Moving parts – Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

Caution: Disconnect power supply cords before servicing.
Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.

Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Regulatory Compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regula-tions of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Product Safety Electrical Appliance & Materials (PSE) - Japan

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Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA 情報技術装置です。この装置を 家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。V C C I – A

China

此为A级产品，在生活环境 中，该产品可能会造成无线电干扰。这种情况下，可能需要用户对其采取切实可行的措施。

Korea Certification (KC) - Korea

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